

FIG. 1

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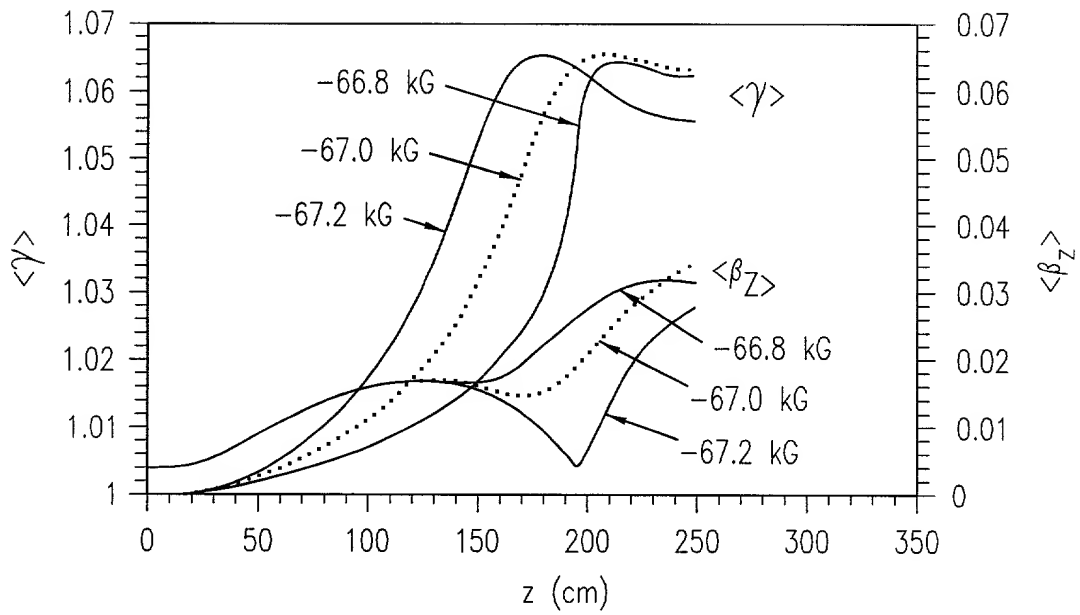


FIG. 2

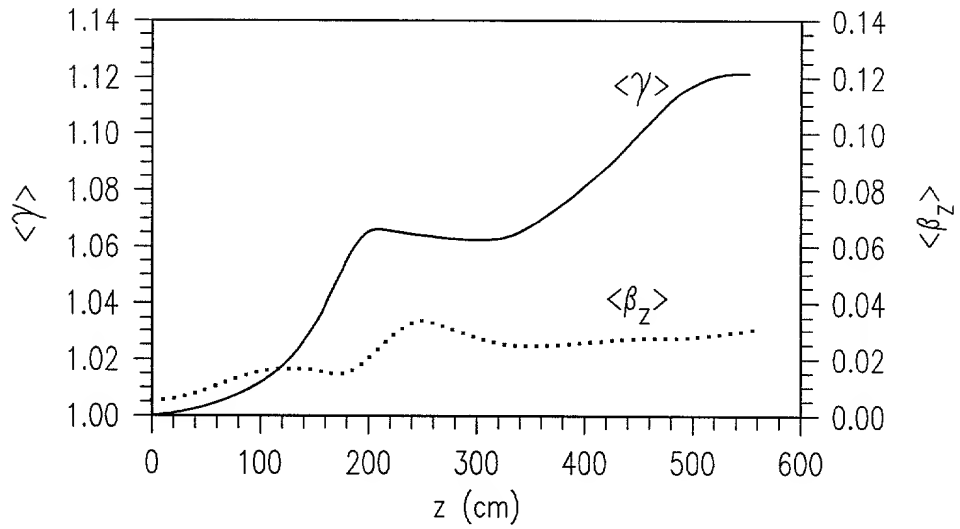


FIG. 3a

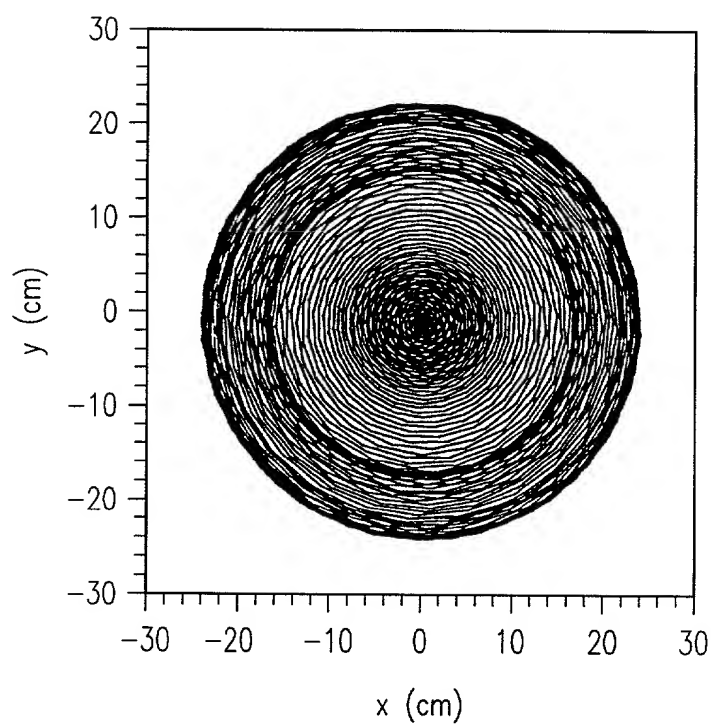


FIG. 3b

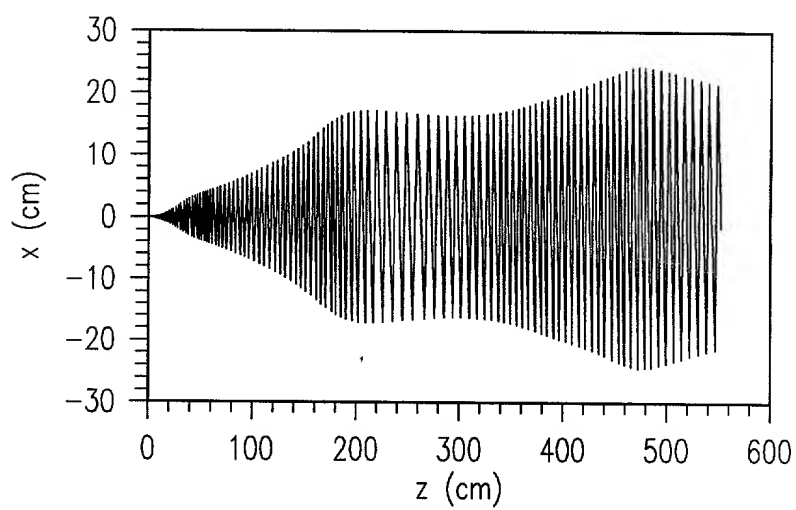


FIG. 3c

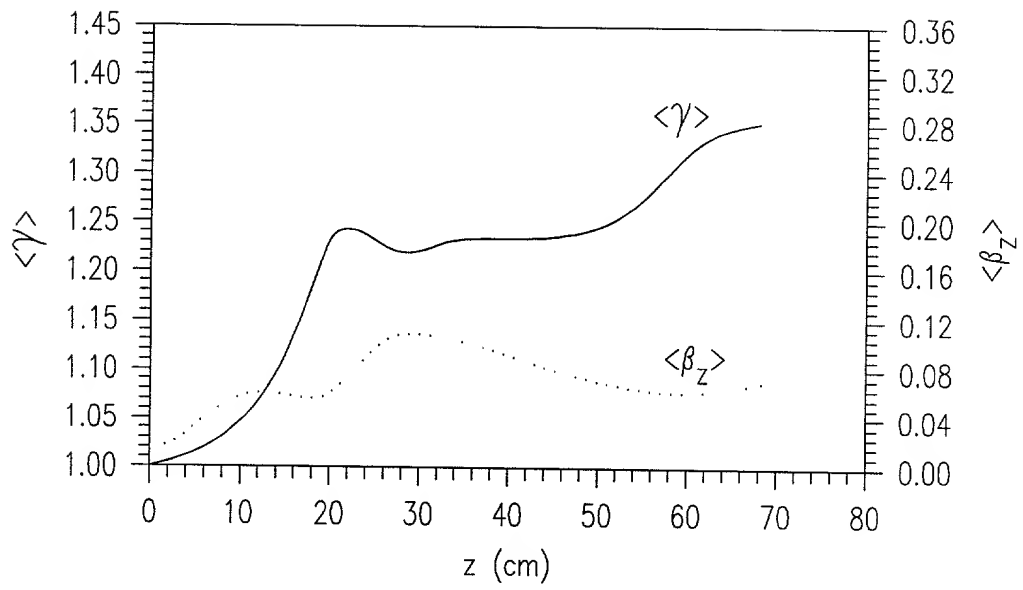


FIG. 4

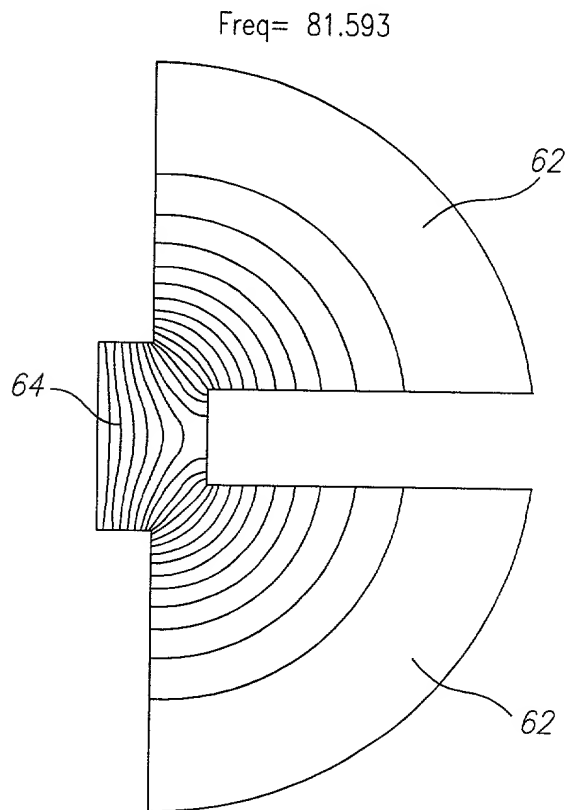


FIG. 6

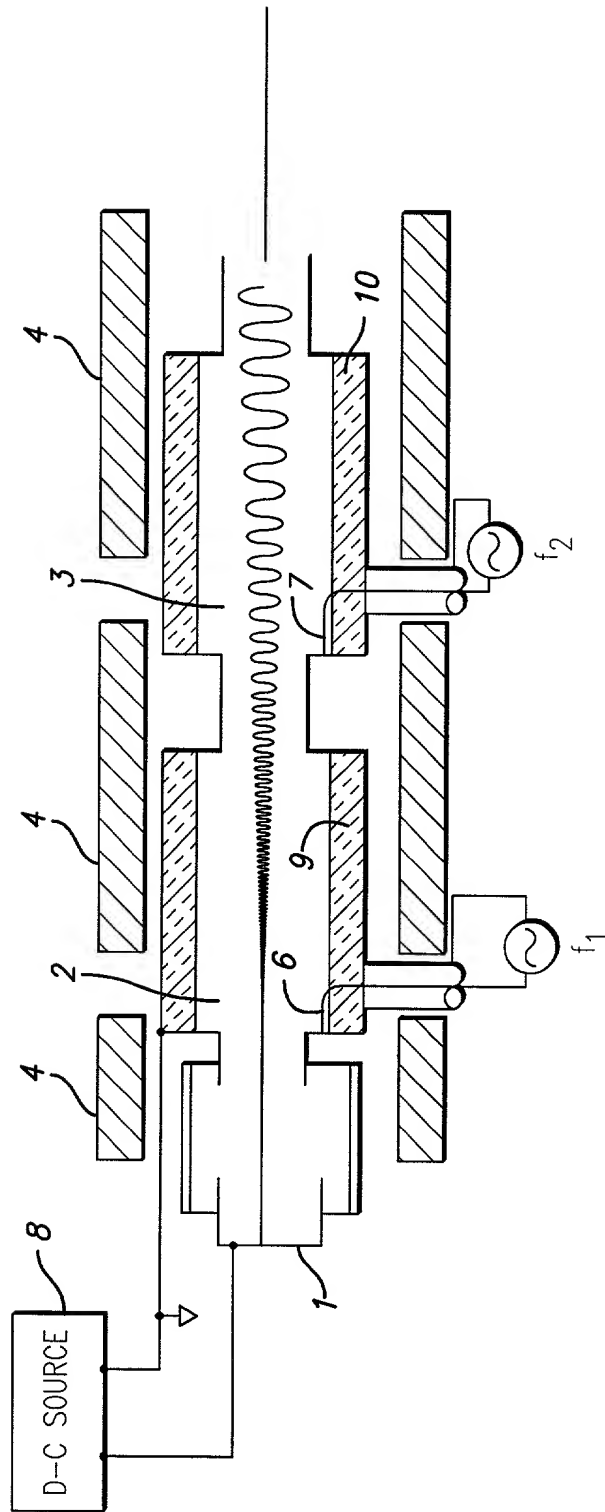


FIG. 5

FIG. 7

CAVITY	DRIVE FREQ.	INITIAL 1C	FINAL 1C	INITIAL GAMMA	FINAL GAMMA	FINAL BETA	BEAM LOAD PER CAV MW	TOTAL BEAM POWER MW	CYCLOTRON RADIUS METERS
1	100	102.5	97.5	1	1.051282	0.308515	0.48358974	0.4835697	0.151052063
2	95	97.5	92.5	1.051282	1.108108	0.430618	0.53586972	1.0194595	0.222376553
3	90	92.5	87.5	1.108108	1.171429	0.520833	0.59711197	1.6168714	0.264205121
4	85	87.5	82.5	1.171429	1.242424	0.59344	0.68948918	2.2660606	0.343450723
5	80	82.5	77.5	1.242424	1.322581	0.654459	0.75567488	3.0419355	0.403201441
6	75	77.5	72.5	1.322581	1.413793	0.705896	0.86013346	3.902059	0.46554232
7	70	72.5	67.5	1.413793	1.518519	0.752549	0.98756065	4.5595296	0.532319323
8	65	67.5	62.5	1.518519	1.64	0.792589	1.14557037	6.0352	0.605493451
9	60	62.5	57.5	1.64	1.762609	0.827832	1.3448	7.38	0.687410126
10	55	57.5	52.5	1.762609	1.852361	0.858559	1.60095238	8.9809524	0.751104373
11	50	52.5	47.5	1.952381	2.157695	0.856142	1.93799499	10.915947	0.890739658

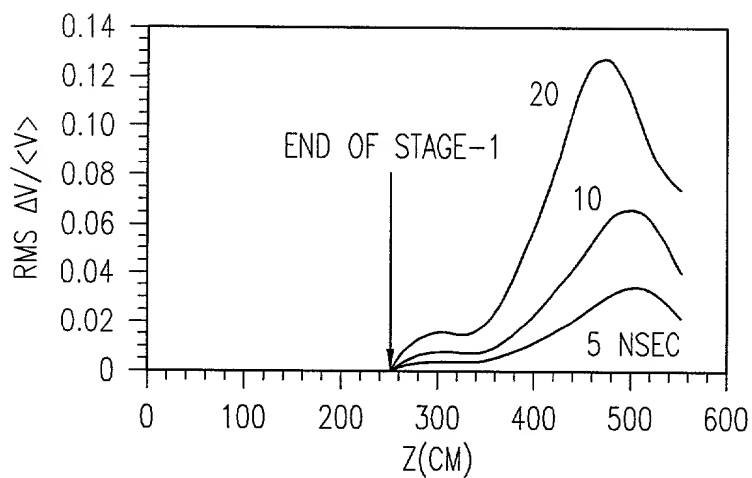


FIG. 8

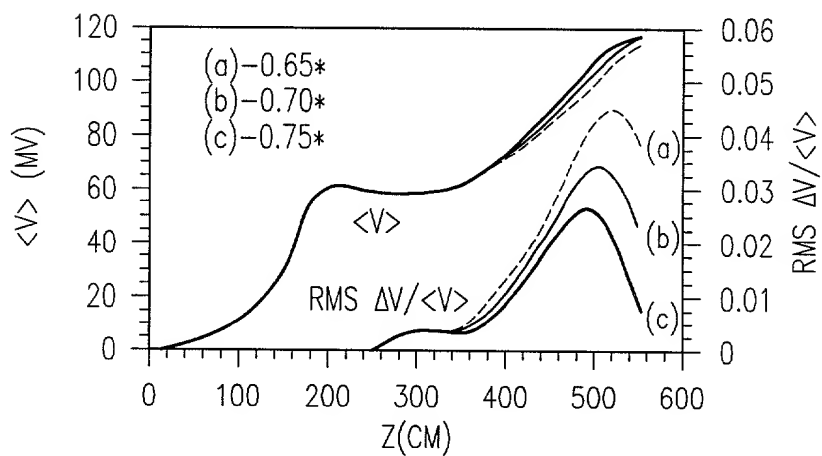


FIG. 9

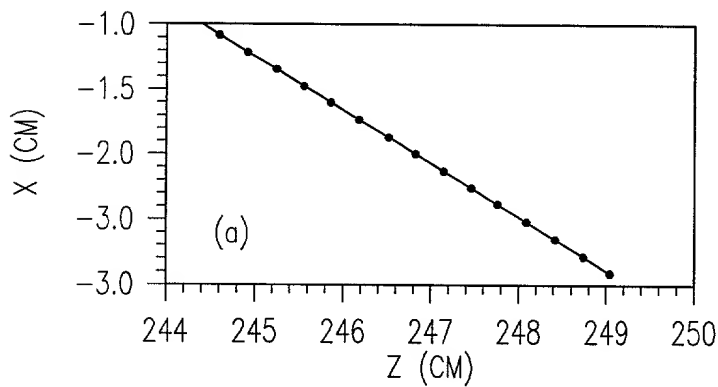


FIG. 10a

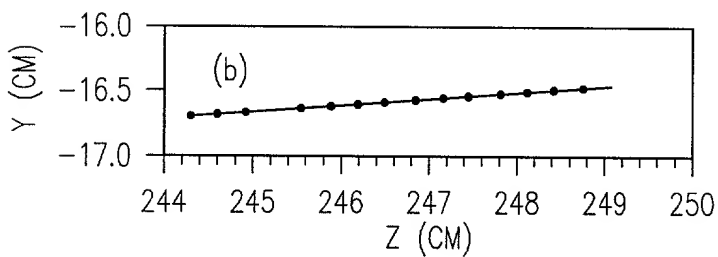


FIG. 10b